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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/847,198 05/03/2001		Deborah Ann Haitko	RD-28698	6436	
6147	7590	05/07/2004		EXAMINER	
GENERAL	ELECTI	RIC COMPANY	COLON, GERMAN		
GLOBAL R				ART UNIT	PAPER NUMBER
		M. BLDG. K1-4A59		TALERACIONEER	
SCHENECTADY, NY 12301-0008				2879	

DATE MAILED: 05/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/847,198	HAITKO ET AL.			
Office Action Summary		Examiner	Art Unit			
		German Colón	2879			
	The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address			
THE - External after - If the - If NC - Failu Any earn	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).		ays will be considered timely. In the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
,	Responsive to communication(s) filed on <u>05 April 2004</u> .					
2a)⊠	This action is <b>FINAL</b> . 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□ 8)□ <b>Applicat</b> i	Claim(s) 1-4,6-12 and 14-18 is/are pending in 4a) Of the above claim(s) is/are withdra Claim(s) 3,4,8,11,12 and 16 is/are allowed.  Claim(s) 1,2,6,7,9,10,14,15,17 and 18 is/are reclaim(s) is/are objected to.  Claim(s) are subject to restriction and/of the specification is objected to by the Examination The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	ewn from consideration.  rejected.  or election requirement.  er.  cepted or b) objected to by the e drawing(s) be held in abeyance.	ee 37 CFR 1.85(a).			
11)	The oath or declaration is objected to by the E					
Priority ι	ınder 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Bureasee the attached detailed Office action for a list	nts have been received.  Its have been received in Applica  Drity documents have been received  Au (PCT Rule 17.2(a)).	tion No ved in this National Stage			
Attachmen		□ <u>-</u>	(070.440)			
2) Notice 3) Infon	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 tr No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I  5) Notice of Informal 6) Other:				

### **DETAILED ACTION**

#### Response to Arguments

1. Applicant's arguments, see Communication mailed April 05, 2004, Pages 5-7, with respect to the rejection of claim 17 over Forsdyke et al. (US 5,952,780) and the rejection of claims 1, 6, 7, 9, 14, 15, 17 and 18 over Watanabe et al. (US 5,801,483) in view of Allen et al. (US 3,858,378) have been fully considered and are persuasive. These rejections have been withdrawn.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 6, 7, 9, 10, 14, 15, 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al. (US 5,801,483) in view of Chvatal (US 3,755,065).

Regarding claims 1, 17 and 18, Watanabe discloses a low-pressure mercury vapor discharge lamp comprising an end metal cap (see Fig. 1) that is attached to a glass envelope with a sealing composition (see Col. 3, line 19). Watanabe is silent regarding the limitation of the sealing composition comprising a silver compound, a gold compound or combination thereof.

However, Chvatal discloses a metal-to-glass sealing composition comprising a silver compound, and teaches this composition to have a relatively low melting temperature, good wetting characteristics, and high coefficient of thermal expansion, which provides a hermetic Application/Control Number: 09/847,198

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seal suitable for mass production manufacturing processes, and reduces damage to high temperature sensitive articles (see Col. 1, lines 6-12, 18-23, 33-38 and 47-53). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the sealing composition disclosed by Chvatal to seal the lamp disclosed by Watanabe, with the purpose of providing a hermetic seal which is suitable for mass production manufacturing processes and which reduces damage to high temperature sensitive articles, due to its relatively low melting temperature, good wetting characteristics, and high coefficient of thermal expansion.

Regarding claim 2, Watanabe-Chvatal discloses the silver compound comprising silver oxide (see '065, col. 2, line 3).

Regarding claim 6, Watanabe-Chvatal discloses the claimed invention except for the limitation of "the silver compound being present in a range between 10-30 mg per lamp". However, it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the silver compound in an amount of 10-30 mg per lamp, since optimization of workable ranges is considered within the skill of the art. Further, the dimensions of the lamp and its production process may influence the amount of sealing composition.

Regarding claim 7, Watanabe-Chvatal discloses a lamp having a sealing composition comprising a silver compound. The Examiner notes that the recitation "elemental mercury is substantially incapable of interacting with ferric and cupric compounds to produce soluble mercury in a presence of said silver compound, gold compound or combination thereof" has not been given patentable weight because is considered an intended used recitation. It has been held

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that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations.

Referring to claims 9, 10, 14 and 15, claims 9, 10, 14 and 15 are rejected over the reasons stated in the rejection of claims 1, 2, 6 and 7, respectively.

Applicant's response necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

## Allowable Subject Matter

4. Claims 3, 4, 8, 11, 12 and 16 are allowed.

5. The following is a statement of reasons for the indication of allowable subject matter:

The claims are allowable for the reasons given in the Office Action mailed 08/06/2003.

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## Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to German Colón whose telephone number is 571-272-2451. The examiner can normally be reached on Monday thru Thursday, from 8:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

QC gc

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